Attorney Docket No. 30775-716.201 PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Cynthia B, ROBINSON, et al.

Serial Number: 10/698,079

Filing Date: October 29, 2003

Title: COMBINATION OF DEHYDROEPIANDROSTERONE OR DEHYDROEPIANDROSTERONE-SUIL FATE WITH AN ANTICHOLINERGIC BRONCHODILATOR FOR TREATMENT OF ASTHMA OR CHRONIC

OBSTRUCTIVE PULMONARY DISEASE

Group Art Unit: 1617

Examiner: Kevin J. Capps

CONFIRMATION NO. 9159

## FILED ELECTRONICALLY ON: February 2, 2007

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450

Attorney Docket No. 30775-716.201

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97

Sir

Applicants hereby submit an Information Disclosure Statement along with attached form PTO/SB/08. A conv of each listed publication is submitted, if required, pursuant to 37 CFR §§1.97-1.98, as indicated below.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. Applicants further request that the Examiner initial and return the attached form PTO/SB/08 in accordance with MPEP §609.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, prior art or material to patentability as defined in §1.56. 3039324 1.DOC -1-

A.	37 CF because:	R §1.97(b). This Information Disclosure Statement should be considered by the Office
		<ol> <li>It is being filed within 3 months of the filing date of a national application and is other than a continued prosecution application under §1.53(d);</li> </ol>
		- OR
		(2) It is being filed within 3 months of entry of the national stage as set forth in §1.491 in an international application;
		- OR
	$\boxtimes$	<ol> <li>It is being filed before the mailing of a first Office action on the merits;</li> </ol>
		- OR -
		(4) It is being filed before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
В.	specified is office action	§ 1.97(c). Although this Information Disclosure Statement is being filed after the period in 27 CFR § 1.97(b), above, it is filed before the mailing date of the earlier of (1) a final to under § 1.11, (2) a notice of allowance under § 1.211, or (3) an action that otherwise equition on the merits, this Information Disclosure Statement should be considered because panied by one of the property
		a statement as specified in §1.97(e) provided concurrently herewith;
		OR
		a fee of $$180.00$ as set forth in $$1.17(p)$ authorized below, enclosed, or included with the payment of other papers filed together with this statement.
C.	date of the	$\Re \$1.97(d)$ . Although this Information Disclosure Statement is being filed after the mailing earlier of (1) a final office action under $\$1.113$ or (2) a notice of allowance under $\$1.311$ , filed before payment of the issue fee and should be considered because it is accompanied
		i. a statement as specified in §1.97(e);
		AND
		<ol> <li>a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this Statement.</li> </ol>
D.	☐ 37 CF	R §1.97(e). Statement.
		A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(c);
		AND/OR
		A statement is provided herewith to satisfy the requirement under 37 CFR §§1.97(d);
		- AND/OR -
		A copy of a dated communication from a foreign patent office clearly showing that the information disclosure statement is being submitted within 3 months of the filling date on the communication is provided in tieu of a statement under 37 C.F.R. § 1.97(e)(1) as provided for under MPEP 690.94(b) V.
E.		ent Under 37 C.F.R. §1.704(d). Item Nos. 1 and 13 of information contained in the a disclosure statement was first cited in a communication from a foreign patent office in a

		airements of 37 C.F.R. §1.704(d) to avoid reduction of the period of adjustment of the after Applicant(s) delay.
F.		R §1.98(a)(2). The content of the Information Disclosure Statement is as follows:
		Copies of each of the references listed on the attached Form PTO/SB/08 are enclosed herewith.
		OR
	$\boxtimes$	Copies of U.S. Patent Documents (issued patents and patent publications) listed on the attached Form PTO/SB/08 are NOT enclosed.
		AND/OR
	⊠	Copies of Foreign Patent Documents and/or Non Patent Literature Documents listed on the attached Form PTO/SB/08 are enclosed in accordance with 37 CFR \$1.98 (a)(2), except Item Nos. 14 thru 28 which are not believed to be relevant to the instant claims. However, Applicants will provide copies of Item Nos. 14 thru 28 if requested.
		- AND/OR
	$\boxtimes$	Copies of pending unpublished U.S. patent applications are enclosed in accordance with 37 CFR $\S1.98(a)(2)(iii)$ .
G.	37 CF.	R §1.98(a)(3). The Information Disclosure Statement includes non-English patents and/or
		Pursuant to 37 CFR §1.98(a)(3)(i), a concise explanation of the relevance of each patent, publication or other information provided that is not in English is provided herewith.
		Pursuant to MPEP 609(B), an English language copy of a foreign search report is submitted herewith to satisfy the requirement for a concise explanation where non-English language information is cited in the search report.
		OR
		A concise explanation of the relevance of each patent, publication or other information provided that is not in English is as follows:
		Pursuant to 37 CFR §1.98(a)(3)(ii), a copy of a translation, or a portion thereof, of the non-English language reference(s) is provided herewith.
H.		R §1.98(d). Copies of patents, publications and pending U.S. patent applications, or other a specified in 37 C.F.R. § 1.98(a) are not provided herewith because:
		Pursuant to 37 CFR §1.98(d)(1) the information was previously submitted in an Information Disclosure Statement for another application under which this application claims priority for an earlier effective filing date under 35 U.S.C. 120.
		Application in which the information was submitted:
		Information Disclosure Statement(s) filed on:
		AND
		The information disclosure statement submitted in the earlier application complied with paragraphs (a) through (c) of 37 CFR §1.98.

 \overline{\text{S}} Fee Authorization. The Commissioner is hereby authorized to charge the above-referenced fees
 of \$0.00 and charge any additional fees or credit any overpayment associated with this
 communication to Deposit Account No. 23-2415 (Docket No. 30775-716.201).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Dated: February / ,2007

Customer No. 021971

650 Page Mill Road Palo Alto, CA 94304-1050 (650) 493-9300

3039324\_1.DOC Attorney Docket No. 30775-716.201

PTO/SB/08 (07/05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Pakent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

				Con	mplete if Known
Substitute f	or form 1449	PTO		Application Number	10/698,079
INFORM	IATION	DISC	LOSURE	Filing Date	October 29, 2003
STATES	MENT BY	APP	LICANT	First Named Inventor	Cynthia B. Robinson
(Use a:	many sheets	аз ле	essary)	Art Unit	1617
				Examiner Name	Kevin J. Capps
Sheet	1	Of	3	Attorney Docket Number	-30775-716.201

Examiner Initials*	Cite No.1	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US 2002/0032160	03/14/2002	Nyce	
	2.	US 2004/0067920	04/08/2004	Leonard et al.	
	3.	US 2004/0082522	04/29/2004	Nyce	
	4.	US 2005/0101545	05/12/2005	Robinson et al.	
	5.	US 4,501,729	02/26/1985	Boucher et al.	
	6.	US 4,956,355	09/11/1990	Prendergast	
	7.	US 6.635.629	10/21/2003	Raymond et al.	

## FOREIGN PATENT DOCUMENTS

l	Examiner Initials*	No.1	Foreign Patent Document Courty Cold' - Number' - Kind Cold' (f/Issue)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
ſ		8.	EP 429187 B1	01/05/1994	Bourke et al.		
ſ		9.	EP 934745 B1	04/28/2004	Kennedy		
ĺ		10.	GB 2240472 A	08/07/1991	Masterson		
ĺ		11.	WO 1991/04030	04/04/1991	Daynes et al.		
ĺ		12.	WO 1996/25935	08/29/1996	Nyce		

- 1	Examiner		Date	
- 1	Signature		Considered	
	*EXAMINER: 10	nitual if reference compidered, whether or not citation is in conformance with MPSP 609	Draw line through	citation if not in conformence and not considered. Include copy
	of this form with ne	nt communication to applicant. "Applicant's unique cetation designation number (option	uf) See Kinds Cod	les of USPTO Patent Documents at www capto gov or MPEP

on the critical contractions are designed from the contraction of the

PTO/SB/08 (07/05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office, U.S. DEFARTMENT OF COMMERCE

Under the	s paperwork Ro	duction A	ct of 1995, no perso		formation unless it contains a valid OMB control number.
					mplete if Known
Substitute for	or form 1449	PTO		Application Number	10/698,079
INFORM	IATION	DISC	LOSURE	Filing Date	October 29, 2003
STATEM	MENT BY	APP	LICANT	First Named Inventor	Cynthia B. Robinson
(Use as	many sheet	s as ne	cessary)	Art Unit	1617
				Examiner Name	Kevin J. Capps
Sheet	2	Of	3	Attorney Docket Number	30775-716.201

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc., date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
	13.	CRETICOS, P. S. Managing asthma in adults. Am J Manag Care. 2000; 6(17 Suppl):S940-63.	
	14.	ABOU-GHARBIA, et al. Synthesis of dehydroepiandrosterone sulfatide and 16 alpha- halogenated steroids. J Pharm Sci. 1981; 70(10):1154-7.	Г
	15.	CLARK, et al. The effects of various methods of sacrifice and of ethanol on adenosine levels in selected areas of rat brain. J Neurosci Methods. 1988; 25(3):243-9.	
	16.	FOLKERS, et al. Lovastatin decreases coenzyme Q levels in humans. Proc Natl Acad Sci U S A. 1990;87(22):8931-4.	
	17.	GREENBERG, et al. Co-enzyme Q10: a new drug for cardiovascular disease. J Clin Pharmacol. 1990; 30(7):596-608.	
	18.	HARTIALA, et al. Testosterone metabolism in dog lung in vitro. Steroids Lipids Res. 1973; 4(1):17-23.	
	19.	ISHIHARA, et al. Gas chromatographic determination of degradation products and stability of dehydroepiandrosterone. Drug Develop. Ind. Pharm. 1979; 5(3):263-275.	
	20.	MERCK Index Monograph No. 7710. 11th Ed. 1989.	
	21.	MILEWICH, et al. Androstenedione metabolism in human lung fibroblasts. J Steroid Biochem. 1986; 24(4):893-7.	
	22.	MILEWICH, et al. Metabolism of androsterone and 5 alpha-androstane-3 alpha,17 beta- diol in human lung tissue and in pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1985; 60(2):244-50.	

Examiner Signature	Date Considered
*EXAMINER: Initial if reference considered, whether or not citation in in confirmance with MPEP 6 of this form with nest communication to applicans: "Applicans's unique chaine designation member (applicans) are offered or of the part	finesh. See Einth Codes of USPTO Patent Documents at www.auto.gov.or.MPEP
precede the serial number of the potent document. "Kind of document by the appropriate symbols as radii check mark here of Doglish language Translation is attached.	icased on the document under WIPO Standard ST 16 if possible. "Applicant is to place a

date and the of English Imaging Paralleles in state of the Marketine and St

PTO/SB/08 (07/05)

Appeared for use through 07/31/2006. OMB 0651-0031
whemselv Office: ILS, DEPARTMENT OF COMMERCE

				Con	uplete if Known
Substitute for form 1449/PTO				Application Number	10/698,079
INFORM	IATION	DISC	LOSURE	Filing Date	October 29, 2003
STATEM	MENT B	APP	LICANT	First Named Inventor	Cynthia B. Robinson
- (Use as	s many shee	ts as ne	cessary)	Art Unit	1617
				Examiner Name	Kevin J. Capps
Sheet	3	Of	3	Attorney Docket Number	30775-716.201

		NON PATENT LITERATURE DOCUMENTS	,
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
	23.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione by the human lung in vitro. J Steroid Biochem. 1977; 8(4):277-84.	
	24.	MILEWICH, et al. Metabolism of dehydroisoandrosterone and androstenedione in human pulmonary endothelial cells in culture. J Clin Endocrinol Metab. 1983; 56(5):930-5.	
	25.	MILEWICH, et al. Testosterone metabolism by human lung tissue. J Steroid Biochem. 1978; 9(1):29-32.	
	26.	MORTENSEN, et al. Coenzyme Q10: clinical benefits with biochemical correlates suggesting a scientific breakthrough in the management of chronic heart failure. Int J Tissue React. 1990;12(3):155-62.	
	27.	PONGRACZ, et al. Capillary gas chromatography of urinary steroids of terbutaline- treated asthmatic children. Chromatographia. 1998; 48(1/2): 163-165.	
	28.	TYCZYNSKI, et al. Lung cancer in Europe in 2000: epidemiology, prevention, and early detection. Lancet Oncol. 2003; 4(1):45-55.	

		UNPUBLISHED PATENT APPLICATIONS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, eatalog, etc.), date, page(s), volume-issue number(s), robbisher, city author occurry where published.	T
	29.	LEONARD, et al. US Patent Application No. 10/462,927, entitled "Dihydrate dehydroepiandrosterone and methods of treating asthma or chronic obstructive pulmonary disease using compositions thereof," filed June 17, 2003. (WSGR Reference No. 30775-722.201)	

	Dute Considered
*EXAMINER! Initial if reference considered, whether or not closeless is in conformance with MPEP 609. Down line through closics if not in conformance and not considered. Include copy	
A AMMINIST INTERNATIONAL TO THE PROPERTY OF TH	
50) 64. "Enter Office that lessed the document, by the two-letter code (WIPO Standard ST 3)."For Japanese paties documents, the indication of the year of the reign of the Emperor must	

Side I. Two Olds for large and to describe, the first is not only 600 to be seen of the control of the control